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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/086,588	02/28/2002	Robert L. Dow	PC11812AAKM	9012
75	90 11/22/2004		EXAM	INER
Gregg C. Benson			COLEMAN, BRENDA LIBBY	
Pfizer Inc. Patent Department, MS 4159			ART UNIT	PAPER NUMBER
Eastern Point Road			1624	
Groton, CT 06	5340		DATE MAILED: 11/22/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/086,588	DOW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brenda Coleman	1624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
 Responsive to communication(s) filed on <u>07 Seconds</u> This action is FINAL. 2b) This Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ice except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-44,49,50,53,57 and 58 is/are pendir 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-35,38-44,49,50,53,57 and 58 is/are 7) ☐ Claim(s) 36 and 37 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. rejected.	-				
Application Papers	-					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Claims 1-44, 49, 50, 53, 57 and 58 are pending in the application.

This action is in response to applicants' amendment filed September 7, 2004. Claims 1, 2, 34, 36-39 and 41-44 were amended.

Response to Amendment

Applicant's amendments filed September 7, 2004 have been fully considered with the following effect:

1. With regards to the 35 U.S.C. § 112, first paragraph rejection of claims 1-35, 38-44, 49, 50, 53, 57 and 58 of the last office action, applicants' state that "the term is adequately enabled, as support for the term is found in the specification at page 27, lines 22-25 and page 27, line 30 through page 29, line 2". However, the definition of prodrug in the specification is such that pro-drug refers to "a compound that is transformed in vivo to yield a compound of Formula (I) or a pharmaceutically acceptable salt, hydrate or solvate of the compound".

The term pro-drug is of indeterminate scope in that they vary widely from drug to drug. It is not known which moiety of formula (I) would form the basis for the pro-drug. Every ester, amide and carbamate in theory is biohydrolyzable, i.e. is capable in some degree of hydrolyses. Not to mention the many in vivo environments that this occurs in. It is the Wands factors, which are used to evaluate the enablement question. In re Wands, 8 USPQ2d 1400 (Fed. Cir. 1988); Ex parte Forman, 230 USPQ 546. The factors include: 1) The nature of the invention, 2) the state of the prior art, 3) the predictability or lack thereof in the art, 4) the amount of direction or guidance present, 5)

the presence or absence of working examples, 6) the breadth of the claims, and 7) the quantity of experimentation needed.

The nature of the invention in the instant invention, has claims which embrace sulfamide compounds. The instant compounds of formula (I) wherein the prodrugs are not described in the disclosure in such a way the one of ordinary skill in the art would no how to prepare the various compounds suggested by claims 1-35, 38-44, 49, 50, 53, 57 and 58. In view of the lack of direction provided in the specification regarding starting materials, the lack of working examples, and the general unpredictability of chemical reactions, it would take an undue amount of experimentation for one skilled in the art to make the claimed compounds and therefore practice the invention.

Claims 1-35, 38-44, 49, 50, 53, 57 and 58 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention, for reasons of record and stated above.

- 2. The applicants' amendments are sufficient to overcome the 35 U.S.C. § 112, second paragraph rejections labeled a), b), c), d), e) and f) of the last office action, which are hereby **withdrawn**. However, with regards to the 35 U.S.C. § 112, second paragraph rejection labeled g) in the last office action, the applicant's amendments and remarks have been fully considered but they are not persuasive.
 - g) The applicants' stated that the claims as amended satisfy the requirements of the second paragraph of the statute. However, claims 38, 39, 49

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and 50 generically claims the method of treating a β_3 adrenergic receptor-mediated disease, condition or disorder. The rejection of claims 38, 39, 49 and 50 was on the grounds that it is indefinite, in that it is not known which diseases are capable of being responsive to the activity of the β_3 adrenergic receptor. The scope of diseases and/or disorders associated with the activity of the β_3 adrenergic receptor could alter over time. The applicants' are not entitled to preempt the efforts of others.

Claims 38, 39, 49 and 50 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, for reasons of record and stated above.

- 3. The applicants' amendments, arguments and the declaration of Dr. Robert L. Dow showing the unexpected results of the compounds of the instant invention are sufficient to overcome the 35 U.S.C. § 103, obviousness rejection of the last office action, which is hereby **withdrawn**.
- 4. The applicants' amendments, arguments and the declaration of Dr. Robert L. Dow showing the unexpected results of the compounds of the instant invention are sufficient to overcome the obviousness-type double patenting rejection of the last office action, which is hereby **withdrawn**.

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Claim Objections

5. Claims 36 and 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Coleman whose telephone number is 571-272-0665. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brenda Coleman

Primary Examiner Art Unit 1624

November 19, 2004